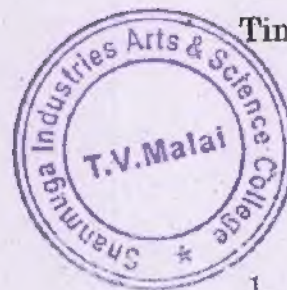


APRIL/MAY 2024

**CBC53 — PHYSIOLOGY AND NUTRITION**

Time : Three hours

Maximum : 75 marks



**SECTION A — (10 × 2 = 20 marks)**

Answer ALL the questions.

1. What is the difference between blood and lymph?
2. Explain the term ECG.
3. What is the first organ to receive carbohydrates absorbed from the intestine?
4. Interpret the role of microvilli.
5. What happens during chloride shift?
6. Explain Bohr Effect.
7. What is the function of macronutrients?
8. Infer the effects of marasms.
9. Why vitamin are called micronutrients?
10. Outline the sources of calcium.

**SECTION B — (5 × 5 = 25 marks)**

**Answer ALL questions.**

11. (a) Identify the types of blood cells.  
Or  
(b) Differentiate between : Open Circulatory System and Closed Circulatory System.
12. (a) Explain the mechanism of HCl formation.  
Or  
(b) How are lipids absorbed? Explain.
13. (a) Organize the functions of kidney.  
Or  
(b) Give an account of the artificial respiration.
14. (a) Explain the balanced diet and its composition.  
Or  
(b) Summarize how proteins as a body building food.
15. (a) Give a note on the sources and functions of Vit. A and E.  
Or  
(b) Explain the biological functions of iron.

**SECTION C — (3 × 10 = 30 marks)**

**Answer any THREE questions.**

16. Explain the physiologic anatomy of heart.
17. Describe the digestion and absorption of carbohydrate.
18. Explain the mechanism of urine formation.
19. Explain the major functions of proteins in the body.
20. Elaborate on the sources RDA and function of Vitamin D.
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